

WHAT IS CLAIMED IS:

1. A DNA related to IgA nephropathy comprising a nucleotide sequence selected from the nucleotide sequences represented by SEQ ID NO:1 to NO:33 and SEQ ID NO:41 to NO:44, or, a DNA which hybridizes with said DNA under stringent conditions.

2. A DNA comprising a nucleotide sequence identical to continuous 5 to 60 residues in a nucleotide sequence selected from the nucleotide sequences represented by SEQ ID NO:1 to NO:33, or a DNA comprising a sequence complementary to said DNA.

3. The DNA according to claim 2, comprising a nucleotide sequence selected from the nucleotide sequences represented by SEQ ID NO:45 to NO:106.

4. A method for detecting mRNA of an IgA nephropathy-related gene using the DNA according to any one of claims 1 to 3.

5. An IgA nephropathy diagnostic agent comprising the DNA according to any one of claims 1 to 3.

6. A method for inhibiting transcription of an IgA nephropathy-related gene or translation of mRNA of an IgA nephropathy-related gene using the DNA according to claim 2 or 3.

7. An IgA nephropathy therapeutic agent comprising the DNA according to claim 2 or 3.

8. A method for isolating a DNA related to IgA nephropathy from leukocytes of a patient with IgA nephropathy comprising conducting a differential display method.

9. A protein comprising an amino acid sequence selected from the amino acid sequences represented by SEQ ID NO:34 to NO:40, or a protein comprising an amino acid sequence in which one or several amino acids are deleted, substituted or added in the amino acid sequence of said protein, and having an activity related to IgA nephropathy.

10. A DNA encoding the protein according to claim 9.

11. A recombinant DNA obtained by inserting the DNA according to claim 10 into a vector.

12. A transformant obtained by introducing the recombinant DNA according to claim 11 into a host cell.

546a1 13. A method for producing the protein according to claim 9, comprising: culturing the transformant according to claim 12 in a medium to produce and accumulate said protein in the culture; and recovering said protein from the resulting culture.

14. An antibody which recognizes the protein according to claim 9.

Sub 02 15. A method for immunologically detecting the protein according to claim 9 using the antibody according to claim 14.

16. An IgA nephropathy diagnostic agent comprising the antibody according to claim 14.

17. An IgA nephropathy therapeutic agent comprising the antibody according to claim 14.

18. A composition comprising the DNA according to any one of claims 1 to 3 and a diagnostic acceptable carrier.

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Introduction

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